

## ABSTRACT OF THE DISCLOSURE

An output impedance bias compensation system for adjusting output impedance of at least one output including a reference impedance generator, an impedance matching controller, at least one output impedance generator, and a programmable bias controller. The reference impedance generator develops a reference impedance based on a reference value. The impedance matching controller continually adjusts an input of the reference impedance generator to match the reference value within a predetermined tolerance. Each output impedance generator is coupled to a corresponding output and is controlled by an output impedance control input. The programmable bias controller combines a bias amount with the value of the input of the reference impedance generator to provide the output impedance control input. The bias controller is programmable to provide a bias amount to compensate for any process variations between the reference impedance generator and each output impedance generator.